

Career Studies Certificates: Basic Electrical Technician; Drafting

AREA: Basic Electrical Technician

PURPOSE: To expose students to theory and applications related to electrical systems

OCCUPATIONAL OBJECTIVES: To prepare students for entry-level positions in the electrical field

This certificate can be completed in two semesters if the following conditions are met:

- Students are willing to enroll in day and evening classes
- Students must take classes in the semesters they are listed

PROGRAM REQUIREMENTS:

Course#	Title	Credits
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Fall Semester

ELE	133	Practical Electricity I	3
ELE	135	National Electrical Code Residential	3
SDV	101/100	Introduction to the Trades Profession	1

Spring Semester

ELE	134	Practical Electricity II	3
ELE	137	National Electrical Code Industrial	3
ELE	190	Coordinated Internship or Technical elective (WEL, AIR, ELE or ITE 115)	3
Total			16

AREA: Drafting

PURPOSE: To enable students to develop drafting graphics skills related to architecture, machine design, and using specialized computer software in the drafting field

OCCUPATIONAL OBJECTIVES: architectural/civil drafter, engineering technician, surveying and mapping technician, draft technician, or other related positions

PROGRAM REQUIREMENTS:

Course#	Title	Credits
ARC	130 Introduction to Materials and Methods of Construction	3
ARC	221 Architectural CAD Applications Software I ¹	3
ARC	222 Architectural CAD Applications Software II ²	3
CAD	241 Parametric Solid Modeling I	3
CAD	242 Parametric Solid Modeling II	3
EGR	110 Engineering Graphics	3
MEC	111 Materials for Industry	3
Total		21

¹Prerequisite for ARC 222 is ARC 221

²Prerequisite for CAD 242 is CAD 241